



Attorney Docket 044508-5001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: **Gerald Quinnan *et al.***

Application No. **09/762,261**

Filed: **May 29, 2001**

For: **Expression and Characterization of HIV-1 Envelope Protein Associated With a Broadly Reactive Neutralizing Antibody Response**

Group Art Unit: **1648**

Examiner: **Shanon Foley**

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AMENDMENT UNDER 37 C.F.R. 1.111

In response to the Office Action dated June 18, 2002 (Paper No. 11), the period for response having been extended from September 18, 2002 to December 18, 2002 by payment of a three-month extension of time fee, please amend the above-referenced application as follows:

In the Specification:

Please replace the paragraph beginning at page 4, line 14, with the following paragraph:

Figure 3 (A): Inhibition of Reference 2-mediated neutralization of pseudoviruses by synthetic V3 peptides. The neutralization endpoints for 90% neutralization were calculated as described previously (Quinnan *et al.*, 1999; Quinnan *et al.*, 1998; Zhang *et al.*, 1999; Park *et al.*, 1998). Results shown are means of triplicate determinations. Dose-response effects of R2 linear 17-mer (open square) and cyclic (closed square) (SEQ ID NO: 2) and the 93TH966.8 cyclic (shaded square) (SEQ ID NO: 4) V3 peptides on neutralization of clone R2 pseudovirus. The peptide concentrations are 3×10 raised to the indicated power.

Please replace the paragraph beginning at page 7, line 6, with the following paragraph:

Polypeptides and peptides comprising any single domain may be of variable length but include the amino acid residues of Table 3 (SEQ ID NO: 1) which differ from previously sequenced envelope proteins. For instance, peptides of the invention which include all or part of the V3 domain may comprise the sequence: PM $X_1X_2X_3X_4X_5X_6X_7X_8X_9X_{10}Q$ (SEQ ID NO: 5), wherein X_1-X_{10} are any natural or non-natural amino acids (P refers to Proline, M refers to methionine and Q refers to Glutamine). Non-natural amino acids include, for example, beta-alanine (beta-Ala), or other omega-amino acids, such as 3-amino propionic, 2,3-diamino propionic (2,3-diaP), 4-amino butyric and so forth, alpha-aminisobutyric acid (Aib), sarcosine (Sat), ornithine (Orn), citrulline (Cit), t-butylalanine (t-BuA), t-butylglycine (t-BuG), N-

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